

MSL 2201 Missile Handling and Inspection

Transition course in missile familiarization and procedures of missile receipt and inspection, installation, and removal and missile ordnance installation, inspection, and transportation; includes operation and inspection of missile ground support and test equipment.

MSL 2206 Missile Maintenance Laboratory

System familiarization and troubleshooting, manufacturer's maintenance manuals and technical data, removal/replacement of access panels for adjustment of mechanical subsystems, and replacement of components. Experience in electrical checkout of ordnance circuits and inspection/maintenance of environmental and radio frequency interference shielding.

MSL 2207 Ground-Launched Cruise Missile Maintenance Dispersal

Maintenance dispersal exercises to include driver training, weapons system safety/nuclear surety, self-aid/buddy care, firearms qualification, communication and auxiliary equipment familiarization/operation, and other common task training.

Munitions

MUN 1201 Munitions Systems Maintenance

Munitions career field functions and familiarization with nuclear/nonnuclear munitions. Includes differentiation of component functions of nuclear/conventional weapons, missiles, and ammunition with emphasis on control procedures, inspection, and explosives safety.

MUN 1202 Nuclear Weapons Systems

Nuclear weapons career field maintenance functions and familiarization with nuclear weapons systems; includes principles of nuclear weapons, nuclear weapons publications, practicing nuclear standards, and application of nuclear security.

MUN 1203 Operation and Function of Nuclear Weapons

Operation and function of components of specific nuclear weapons, including preparation for strike, disassembly, limited life-component exchanges, weapons buildup, inspections, and application of emergency procedures.

MUN 1205 Weapons Movement

Familiarization and operator maintenance on cargo vehicles, tow vehicles, ground power units, and general munitions trailers; includes initial/periodic inspections and lift vehicle operations.

MUN 2201 Reentry Systems Maintenance

Advanced maintenance on specific space reentry systems. Includes function and operation of system overview, shroud operation, deployment module, and reentry systems final buildup; preparation/packaging for transport; and application of safety/security procedures.

MUN 2202 Reentry Vehicle Maintenance

Advanced operational theory and maintenance of reentry vehicles; includes alignment, adjustments, maintenance procedures, and troubleshooting analysis.

Nuclear Medicine Technology

NMT 1300 Applied Nuclear Medicine Mathematics

Mathematics applicable to nuclear medicine; includes fundamental algebra, logarithms, graphing, calculations of doses of radionuclides, and statistics.

NMT 1301 Applied Nuclear Physics

Basic units and mass energy relationships, quantum theory, nuclear structure, physical characteristics and modes of radioactive decay, electromagnetic radiation.

NMT 1303 Radiation Safety

Introduction to radiation safety; includes shielding requirements, nuclear regulatory commission license, personnel dosimeter, and radiation accidents and casualties.

NMT 1304 Radiation Instrumentation for Nuclear Medicine

Scintillation spectrometer calibration, operating principles of scintillation gamma camera, radionuclide counting systems of liquid scintillation, speck and alternate imaging modalities, semiconductor detectors, and quality control.

NMT 1305 Radiopharmacy

Introduction to radiopharmaceuticals, quality control, radioactive equilibrium, and radionuclide generators.

NMT 1306 Diagnostic Imaging

Studies of central nervous system, which include process imaging of pulmonary, cardiovascular, cardiac, gastrointestinal, and urinary tract systems and bone marrow and tumor inflammatory studies.

NMT 1307 Radionuclide Dilution Procedures

Venipuncture techniques, total blood volume determination, red cell survival/sequestration, Schilling test, and glomerule filtration rate.

NMT 1308 Thyroid and Therapy Procedures

Procedures for basic thyroid disorders. Includes uptake test, imaging, and therapy.

NMT 1309 Radioimmunoassay Procedures

Fundamentals of radioimmunoassay procedures and quality control.

NMT 1310 Radiation Biology

Biological changes of human cells in relationship to radiation illness and calculation of absorbed doses.

NMT 2319 Computer Applications in Nuclear Medicine

Imaging, data reduction, functions, and programming language in nuclear medicine.

NMT 2320 Clinical Diagnostic Imaging

Procedures and techniques for diagnostic imaging. Includes quality control, preventive maintenance, collimation, counting statistics, image acquisition parameters, and data analysis.

NMT 2321 Nuclear Laboratory Procedures

Clinical analysis of human blood cells and plasma. Includes volume and mass measurements, Schilling test, radioassays, radioimmunoassays, quality control of assay procedures, and laboratory equipment.

NMT 2322 Clinical Radiopharmacy

Measurements, calculations, quality control, and interpretations for nuclides, technetium) iodine, chromium, cobalt, xenon, gallium, iridium, and thallium. Includes diagnostic and therapeutic applications, administration of radiopharmaceuticals, and primary thyroid therapy applications with radioactive iodine.

NMT 2323 Clinical Radiation Safety

Application of radiation safety techniques, quality control, and Nuclear Regulatory Commission requirements for a licensed laboratory. Includes labeling procedures, warning signs for radionuclide storage, waste disposal and decontamination of personnel, equipment, and space.

NMT 2324 Administrative Procedures

Procedures for ordering radionuclides, equipment, and supplies; scheduling patients for films; and recording/filing reports.

NMT 2325 Didactic Review

Lectures and examinations in clinical nuclear medicine areas requiring demonstrated knowledge. Includes clinical procedure updates and didactic review of basic science.

Nursing

**NUR 1304 Fundamentals of Patient Care**

Human anatomy lphysiology, medical terminology interpersonal relations and human needs, patient needs, basic nursing techniques, and cardiopulmonary resuscitation.

NUR 1306 Introduction to Emergency Patient Care

Emergency medical procedures, injury assessment, mechanical aids to respiration, transportation of sick and injured, and aeromedical evacuation.

NUR 1315 Mental Health Nursing

Personality development, adjustment mechanisms and therapy, psychoses and neuroses, chemotherapy, psychotherapy, and milieu therapy.

NUR 1316 Applied Mental Health Nursing Principles

Planning and administering care and communicating/interacting with mentally ill patients.

NUR 1317 Patient Care Fundamentals

Introduction to military nursing care; basic sciences; and human anatomy, physiology, growth, and development.

NUR 1318 Basic Nursing

Infection control; patient movement, safety, comfort, and hygiene; specimen collection; nutrition and elimination; vital signs; and pre- and postoperative care.

NUR 1319 Intermediate Nursing

Medications and fluid therapies; basic wound care; cardiorespiratory procedures; skeletal/immobility procedures; obstetric/neonatal/pediatric care; eye, ear, nose, and throat care; patient care planning; and basic cardiac life-support procedures.

NUR 1324 Introduction to Operating Room Technology

Anatomy and physiology, medical terminology, safety, surgical supplies and equipment, anesthesia, pre- and postoperative patient care, and transportation/positioning of surgical patient.

NUR 1325 Operating Room Technology

Microbiological basis for sterilization, asepsis and disinfection of operating room and scrubbing, gowning, and gloving in operating room environment.

NUR 1326 Operating Room Practicum

Practicum in scrub and circulator duties, preparation of surgical patient, and professional ethics.

NUR 1328 Introduction to Clinical Practicum

Introduction to hospital nursing care. Includes patient sensitivity, safety, security, medical readiness, plans, documents, and patient care.

NUR 1329 Medical Unit Practicum

Medical unit experience and procedures. Includes initial screening, routine physical examinations, housekeeping, hygiene, wheelchair transportation, and meal selection/distribution.

NUR 1330 Surgical Unit Practicum

Surgical unit experience and procedures. Includes pre- and postoperative instructions, dressing changes, intravenous care, and body waste assistance.

NUR 1331 Obstetrical Unit Practicum

Obstetrical unit experience and procedures. Includes patient assistance in labor and delivery, fetal heart monitoring, infant identification, delivery room preparation, nursery care, and postpartum procedures.

NUR 1332 Emergency Department Practicum

Hospital emergency department experience and procedures. Includes patient transfers, simple triage, wound preparation, communications, and operation of emergency vehicles.

NUR 1333 Fundamentals of Mental Health

Factors of mental health disorders and theories of modern psychological development. Includes identification and recognition of childhood, adolescent, and other mental health disorders.

NUR 1334 Mental Health Evaluations

Principles and techniques of interviewing, documentation of initial mental health screening, social histories, and administration and scaling of mental health tests.

NUR 1335 Mental Health Interventions

Techniques for monitoring and documenting crises and stress, management of combat/disaster casualties, and counseling techniques for individuals and families.

NUR 1336 Mental Health Administration

Introduction to Air Force mental health programs and basic administrative functions. Includes family advocacy, humanitarian reassimments and deferments, and personnel reliability programs.

NUR 1337 Mental Health Clinical Experience

Techniques of caring for alcohol rehabilitation center patients and mental health in- and outpatients.

NUR 1338 Operating Room Nursing Practicum

Clinical experience in scrub and circulating technician duties in orthopedic, general, and obstetric/ gynecological surgery.

NUR 1339 Fundamentals of Central Sterile supply

Practicum in operation of equipment used in central sterile supply.

NUR 2315 Aerospace Physiological Principles and Survival Techniques

Effects of hypoxia, hyperventilation, stress, and changes in barometric pressure on the human body; use of oxygen; altitude indoctrination; and survival techniques.

NUR 2316 Aerospace Nursing

Effects of flight-induced psychological changes, diseases, and injuries on patients; in-flight nursing care; care of patients in aircraft emergencies; and organization and operation of aeromedical evacuation system.

NUR 2317 Physiological Aspects of Human Development

Male and female reproductive systems, prenatal development, labor and delivery, newborns, the elderly, and dying.

NUR 2318 Nursing Intervention Techniques

Support of patient physical and psychosocial condition through nutrition, classic immunological defenses, and functions of body's inflammatory responses. Includes body states and electrolytic acid/balance, renal/circulatory systems; pharmacology; family violence and crisis intervention, and basic cardiac life-support.

NUR 2320 Nursing Management and Communicative Techniques

Development of supervisory, communicative, and training skills to manage organization, personnel, and patients of a health care delivery unit; oral communication in health teaching; leadership in nursing; labor-management relations; and instructor training in basic cardiac life support.

NUR 2321 Human Body Systems

Functions/dysfunctions of neurological, endocrine, cardiovascular, respiratory, gastrointestinal, and renal systems emphasizing care through nursing intervention.

NUR 2322 Medical Readiness for Medical Service Technician Manager

Roles/responsibilities of medical technician manager in dealing with shock patient; biological, chemical, and nuclear casualty; combat stress victim; emergency airway procedures; and mass casualty triage.

NUR 2323 Future in Nursing Services

Trends and changes in staff development, adult education, computer applications in nursing administration, ambulatory care management, and methods in service education methods in hospital/clinic environment.

NUR 2327 Infection Control and Epidemiology

Skills needed to develop, manage, and evaluate an infection control program based on Joint Commission on Accreditation of Healthcare Organizations standards, Center for Disease Control guidelines, and Air Force procedures.

NUR 2328 Battlefield Nursing

Triage, resuscitation with stabilization, trauma life support, and psycho-social needs of patient and caregiver.

NUR 2329 Nursing Staff Development

Planning, organizing, implementing, and evaluating nursing service staff development programs. Includes needs assessment, instructional program design and methodology, and correlation with Joint Commission on Accreditation of Healthcare Organizations and American Nurses Association.

Orthotic Prosthesis Devices

OPD 1301 Introduction to Orthotics

Medical ethics and terminology, emergency medical care, history of orthotics, professional and patient relationships, principles of life support, administrative procedures, and selected orthotic nomenclature.

OPD 1302 Anatomy, Physiology, and Kinesiology of Orthoses

Principles of body systems/functions and mechanics of upper/lower extremities, spine, and pelvis.